

Date: Fri, 21 Oct 94 07:28:48 PDT
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>
Errors-To: Info-Hams-Errors@UCSD.Edu
Reply-To: Info-Hams@UCSD.Edu
Precedence: List
Subject: Info-Hams Digest V94 #1140
To: Info-Hams

Info-Hams Digest Fri, 21 Oct 94 Volume 94 : Issue 1140

Today's Topics:

 "Re: Ham License Tests in Washington, DC, Area"
 (none)
 anyone know anything about hallicrafters
 Intl call sign servers/CDs
 Is this legal? (2 msgs)
 Japan International DX PH contest
 orbs\$294.1of2.amsat
 orbs\$294.2l.amsat
 Power company QRN!!
 SCHEMATIC DRAWING SOFTWARE
 Yaesu 5100 mods

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: 21 Oct 94 12:53:07 GMT
From: rc@itchy.ncsl.NIst.GOV (Robert Carpenter)
Subject: "Re: Ham License Tests in Washington, DC, Area"

The BEST source of info on ham license tests in the MD/VA/DC area is
surely "Autocall", the newsletter of the FAR. The September issue lists
five (5) pages of coming exam sessions.

"Autocall" can be obtained (\$1) at all the local ham stores and from
PO Box 7612, Falls Church, VA 22040-7612 .

Its 56 pages include club columns from many area clubs (a newcomer should try

Date: 21 Oct 1994 10:22:32 GMT
From: wvanho@infinet.com (W. E. Van Horne)
Subject: Intl call sign servers/CDs

smithson@ACM.ORG wrote:

: I have a list of callsign servers and an Amsoft CDROM but they only
: have FCC/American calls. Does anyone know of a server or CD CD that has
: international calls as well?

: 73!

: -Brian n8wrl

I don't know of any International "Call Book" CD, and I doubt that any
such listing will be put on an open server because of the cost and labor
required to compile it. But individual countries may do so. A listing
of UK hams is available online at:

[http://www.mgcc.ac.uk/OtherPages/Trafford ARC/Trafford.html](http://www.mgcc.ac.uk/OtherPages/Trafford%20ARC/Trafford.html).

73, Van - W8UOF

* * * * *
* It ain't wot ya don't know 't gets ya into trouble. *
* It's wot ya know 't ain't true. - "Mr. Dooley" *
* * * * *

wvanho@infinet.com

Date: 21 Oct 1994 12:44:05 GMT
From: scotte@ccs.neu.edu (Scott Ehrlich)
Subject: Is this legal?

In article <Pine.3.87.9410200629.B64565-01000000@fep01.rfc.comm.harris.com>,
Steven L Goldstein <slg@rfc.COMm.harris.COM> wrote:

>I live in New York State and my brother-in-law is presently living in
>Colombia, South America. He's not a ham but has a short wave radio. Would
>it be legal for me to make a one-way transmission intended for him to
>hear, or are amateur radio transmissions only legal if they're 2-way w/
>other hams?
>
>KB2PWM

This would be illegal.

You are right - "amateur radio transmissions only legal if they're 2-way w/ other hams..."

The only real exceptions to the rule are:

- Tossing your call out on HF or a repeater to establish a contact
- Performing a QST - broadcast to all hams, which is normally not done, and would be considered bad operating practice.

--

Scott Ehrlich, Amateur Radio Callsign: wy1z wy1z@wg1i.ma [AX.25 Packet]
E-mail addresses: wy1z@neu.edu [Internet], wy1z@wa1phy.ampr.org [TCP/IP Packet]
Boston ARC ftp archives: ftp oak.oakland.edu /pub/hamradio
Boston ARC Web page: <http://www.acs.oakland.edu/barc.html>

Date: Thu, 20 Oct 1994 15:52:18 GMT
From: dale.piedfort@pcapbbbs.com (Dale Piedfort)
Subject: Is this legal?

that would be considered BROADCASTING, and would most certianly be illegal.

Date: 21 Oct 94 12:22:40 GMT
From: je1cka@dumpty.nal.go.JP (Takao KUMAGAI)
Subject: Japan International DX PH contest

Hi all

I expect to have many not-so-serious testers for the JIDX PH contests.
There are plenty of awards and plaques. Just enjoy the qsos with JAs and send the log/summary via e-mail. Is it convenient for you?

Tack JE1CKA/KH0AM

====
1994 JAPAN INTERNATIONAL DX "PHONE" CONTEST

OBJECTIVE: For amateurs around the world to contact JA stations in as many JA prefectures as possible.

1. CONTEST PERIOD:

Starts: Nov. 11 '94(Friday) 2300 UTC

Ends : Nov. 13 '94(Sunday) 2300 UTC

Operating period is maximum 30 hours of the total 48, except for JAs, who can operate the full 48 hours. Off period must be longer than 60minutes length and clearly indicated in the summary sheet.

2. BANDS: 3.8, 7, 14, 21 & 28MHz, except for the WARC bands.

3. ENTRY CLASSIFICATIONS:

Choose only one!

3-1.Single Operator Multi Band

3-2.Single Operator Single Band

3-3.Multi Operator Single Transmitter

All categories; only one transmitted signal allowed at any one time.

Single operator can change bands at any time.

Multi Operator; They must remain the same band at least 10minutes when they make the contact on that band.

Single operator, single band contestants may only submit an entry for a single band, though submission of check logs for operation on other bands is encouraged.

4. CONTEST EXCHANGE:

JAs : RS report plus Prefecture number 01 to 50.

Others: RS report plus three-digit serial number starting from 001. Keep one serial number count for all bands.

5. POINTS:

Only contacts between JA and DX are worth contest points.

(DX-DX or JA-JA contacts are no point and no multi)

3.8MHz 2 points

7MHz, 14MHz and 21MHz..... 1 point

28MHz..... 2 Points

The same station may be worked only once per band.

No crossmode, crossband nor repeater contacts are allowed.

6. MULTIPLIER:

JAs : The number of different DXCC country (except JD1) worked on each band.

Others : The number of different Japanese Prefecture plus Ogasawara Is.(JD1), Minami-Torishima Is.(JD1) and Okino-Torishima Is. worked on each band.

Maximum of 50 per band.

7. SCORING:

The final score is the result of the

(Total QSO points) multiplied by (Total multiplier).

Ex. 100 QSO points x 59 multi = 5,900

8. LOG INSTRUCTIONS:

8-1. All times must be in GMT.

8-2. All sent and received exchanges are to be logged.

8-3. Indicate the new multiplier(prefecture) only the FIRST TIME it is worked on each band.

8-4. Duplicate contacts on same band must be clearly shown and marked as 0 QSO point.

8-5. Electronic Log:

Disk log; IBM, MS-DOS compatible disks are accepted only with the printed summary sheet. The LOG format must meet the "ARRL Suggested Standard File Format For Submission of Contest Log Data".

Email Log; Request to send the instructions to the email address indicated below with the word "#get jidx-log" in the body of the message.

jidx-info@dumpty.nal.go.jp (For information request only)

Then you'll receive the instructions by email.

8-6. Use a separate sheet for each band and keep one serial number count for all bands..

8-7. Each entry must be accompanied by a summary sheet showing all scoring information, class of entries, name and address in BLOCK LETTERS, and a signed declaration that all contest rules and regulations for amateur radio in the country of operation have been observed.

8-8. The 18 hour non-operating periods must be clearly shown in the summary sheet.

8-9. All entrants are required to submit dupe-check sheets (an alphabetical list of calls worked) for each band on which 200 or more QSOs were made.

9. PLAQUES:

Plaques will be awarded to the winner in each class in each continent, Japan, Zone 3/4/5 and World.

Top USA Single operator will be invited to Japan to receive the plaque. (Free two way ticket will be donated by Bear JA7RHJ.)

10. AWARDS:

First place certificates will be awarded in each class in every country and in each call area of the USA.

11. SPECIAL CONTEST AWARD:

Any entrants who worked all Japanese prefectures (01 to 47) during the contest period can request a Special Contest Award with the separate worked list with free of charge.

Stations call sign, time, band must be indicated ordered prefecture number in the list.

12.REPORTING:

A original log and a summary sheet will be requested with a SAE + one IRC but any log forms will be accepted.

All entries must be postmarked no later than 31th December and they should be sent to

JIDX contest "PH", c/o FIVE-NINE MAGAZINE

P.O.Box 59, Kamata, Tokyo, 144 Japan

The contest results will be sent with one IRC and SAE.

Email log submission will be judged with the time stamp of the email and it should be sent to

jidx-log@dummy.nal.go.jp (Log submission only)

The acknowledgement will be sent when the email log is received and the result also will be sent by email.

13.DISQUALIFICATION:

Violation of the contest rules.

False statement in the report.

The decisions of the JIDX contest committee are final.

[end]

Date: 21 Oct 94 13:53:00 GMT
From: ray.hoad@drig.COM (Ray Hoad)
Subject: orbs\$294.1of2.amsat

SB KEPS @ AMSAT \$ORBS-294.0
Orbital Elements 294.OSCAR

HR AMSAT ORBITAL ELEMENTS FOR OSCAR SATELLITES
FROM WA5QGD FORT WORTH,TX October 21, 1994
BID: \$ORBS-294.0
TO ALL RADIO AMATEURS BT

Satellite: A0-10
Catalog number: 14129
Epoch time: 94289.48195497
Element set: 324
Inclination: 26.8030 deg
RA of node: 302.7931 deg
Eccentricity: 0.6025932
Arg of perigee: 219.6206 deg
Mean anomaly: 75.3706 deg
Mean motion: 2.05881540 rev/day
Decay rate: -3.48e-06 rev/day^2
Epoch rev: 8528

Checksum: 313

Satellite: UO-11

Catalog number: 14781

Epoch time: 94293.06337217

Element set: 747

Inclination: 97.7840 deg

RA of node: 301.9351 deg

Eccentricity: 0.0010762

Arg of perigee: 228.9828 deg

Mean anomaly: 131.0446 deg

Mean motion: 14.69256351 rev/day

Decay rate: 1.74e-06 rev/day²

Epoch rev: 56864

Checksum: 321

Satellite: RS-10/11

Catalog number: 18129

Epoch time: 94292.38005554

Element set: 974

Inclination: 82.9252 deg

RA of node: 237.0364 deg

Eccentricity: 0.0012882

Arg of perigee: 44.0813 deg

Mean anomaly: 316.1366 deg

Mean motion: 13.72342608 rev/day

Decay rate: 2.4e-07 rev/day²

Epoch rev: 36694

Checksum: 301

Satellite: A0-13

Catalog number: 19216

Epoch time: 94289.83915306

Element set: 984

Inclination: 57.7079 deg

RA of node: 225.4122 deg

Eccentricity: 0.7238776

Arg of perigee: 352.6062 deg

Mean anomaly: 0.6575 deg

Mean motion: 2.09727113 rev/day

Decay rate: -6.75e-06 rev/day²

Epoch rev: 4856

Checksum: 335

Satellite: F0-20

Catalog number: 20480

Epoch time: 94293.27365552

Element set: 741

Inclination: 99.0572 deg
RA of node: 61.5721 deg
Eccentricity: 0.0541232
Arg of perigee: 56.2117 deg
Mean anomaly: 308.9325 deg
Mean motion: 12.83227627 rev/day
Decay rate: -2.6e-07 rev/day^2
Epoch rev: 22017
Checksum: 285

Satellite: A0-21

Catalog number: 21087
Epoch time: 94292.36296368
Element set: 530
Inclination: 82.9357 deg
RA of node: 50.8005 deg
Eccentricity: 0.0036410
Arg of perigee: 96.9673 deg
Mean anomaly: 263.5626 deg
Mean motion: 13.74545926 rev/day
Decay rate: 9.4e-07 rev/day^2
Epoch rev: 18664
Checksum: 329

Satellite: RS-12/13

Catalog number: 21089
Epoch time: 94292.90359627
Element set: 746
Inclination: 82.9197 deg
RA of node: 278.9539 deg
Eccentricity: 0.0030567
Arg of perigee: 119.7822 deg
Mean anomaly: 240.6385 deg
Mean motion: 13.74048095 rev/day
Decay rate: 4.8e-07 rev/day^2
Epoch rev: 18577
Checksum: 361

Satellite: ARSENE

Catalog number: 22654
Epoch time: 94278.90721955
Element set: 291
Inclination: 2.0802 deg
RA of node: 94.2592 deg
Eccentricity: 0.2911798
Arg of perigee: 193.1780 deg
Mean anomaly: 157.9888 deg
Mean motion: 1.42203095 rev/day

Decay rate: -8.7e-07 rev/day^2
Epoch rev: 277
Checksum: 322

/EX

SB KEPS @ AMSAT \$ORBS-294.D
Orbital Elements 294.MICROS

HR AMSAT ORBITAL ELEMENTS FOR THE MICROSATS
FROM WA5QGD FORT WORTH, TX October 21, 1994
BID: \$ORBS-294.D
TO ALL RADIO AMATEURS BT

Satellite: UO-14
Catalog number: 20437
Epoch time: 94293.20440151
Element set: 46
Inclination: 98.5855 deg
RA of node: 16.2512 deg
Eccentricity: 0.0010711
Arg of perigee: 180.6647 deg
Mean anomaly: 179.4521 deg
Mean motion: 14.29858832 rev/day
Decay rate: 1.6e-07 rev/day^2
Epoch rev: 24745
Checksum: 293

Satellite: AO-16
Catalog number: 20439
Epoch time: 94293.18528199
Element set: 844
Inclination: 98.5946 deg
RA of node: 17.6023 deg
Eccentricity: 0.0011017
Arg of perigee: 181.3296 deg
Mean anomaly: 178.7858 deg
Mean motion: 14.29912892 rev/day
Decay rate: 2.1e-07 rev/day^2
Epoch rev: 24746
Checksum: 339

Satellite: DO-17
Catalog number: 20440
Epoch time: 94293.26734657
Element set: 845
Inclination: 98.5958 deg
RA of node: 18.0510 deg
Eccentricity: 0.0011167

Arg of perigee: 180.4971 deg
Mean anomaly: 179.6201 deg
Mean motion: 14.30052923 rev/day
Decay rate: 3.3e-07 rev/day^2
Epoch rev: 24749
Checksum: 305

Satellite: W0-18

Catalog number: 20441
Epoch time: 94293.24494939
Element set: 848
Inclination: 98.5952 deg
RA of node: 18.0195 deg
Eccentricity: 0.0011596
Arg of perigee: 180.8388 deg
Mean anomaly: 179.2773 deg
Mean motion: 14.30026432 rev/day
Decay rate: 2.1e-07 rev/day^2
Epoch rev: 24749
Checksum: 332

Satellite: L0-19

Catalog number: 20442
Epoch time: 94292.65493458
Element set: 843
Inclination: 98.5961 deg
RA of node: 17.7262 deg
Eccentricity: 0.0011969
Arg of perigee: 182.0129 deg
Mean anomaly: 178.1015 deg
Mean motion: 14.30124407 rev/day
Decay rate: 2.7e-07 rev/day^2
Epoch rev: 24742
Checksum: 307

Satellite: U0-22

Catalog number: 21575
Epoch time: 94293.19690594
Element set: 550
Inclination: 98.4248 deg
RA of node: 5.0993 deg
Eccentricity: 0.0006860
Arg of perigee: 280.7084 deg
Mean anomaly: 79.3332 deg
Mean motion: 14.36936911 rev/day
Decay rate: 5.8e-07 rev/day^2
Epoch rev: 17103
Checksum: 320

Satellite: K0-23
Catalog number: 22077
Epoch time: 94289.37574728
Element set: 442
Inclination: 66.0823 deg
RA of node: 26.2410 deg
Eccentricity: 0.0015338
Arg of perigee: 259.0870 deg
Mean anomaly: 100.8421 deg
Mean motion: 12.86288192 rev/day
Decay rate: $-3.7e-07$ rev/day²
Epoch rev: 10237
Checksum: 297

Satellite: A0-27
Catalog number: 22825
Epoch time: 94289.20447981
Element set: 341
Inclination: 98.6444 deg
RA of node: 3.7385 deg
Eccentricity: 0.0007848
Arg of perigee: 213.4469 deg
Mean anomaly: 146.6210 deg
Mean motion: 14.27637415 rev/day
Decay rate: $1.4e-07$ rev/day²
Epoch rev: 5495
Checksum: 319

Satellite: I0-26
Catalog number: 22826
Epoch time: 94289.24670406
Element set: 339
Inclination: 98.6426 deg
RA of node: 3.8334 deg
Eccentricity: 0.0008393
Arg of perigee: 215.0725 deg
Mean anomaly: 144.9903 deg
Mean motion: 14.27742390 rev/day
Decay rate: $1.8e-07$ rev/day²
Epoch rev: 5496
Checksum: 318

Satellite: K0-25
Catalog number: 22830
Epoch time: 94292.73316631
Element set: 347
Inclination: 98.5400 deg

RA of node: 3.1976 deg
Eccentricity: 0.0009059
Arg of perigee: 172.1632 deg
Mean anomaly: 187.9714 deg
Mean motion: 14.28064069 rev/day
Decay rate: -1.86e-06 rev/day^2
Epoch rev: 5547
Checksum: 313

Satellite: 22828
Catalog number: 22828
Epoch time: 94289.22924900
Element set: 318
Inclination: 98.6401 deg
RA of node: 3.8389 deg
Eccentricity: 0.0009607
Arg of perigee: 199.1431 deg
Mean anomaly: 160.9387 deg
Mean motion: 14.28069592 rev/day
Decay rate: 3.4e-07 rev/day^2
Epoch rev: 2305
Checksum: 332

/EX

Date: 21 Oct 94 14:00:00 GMT
From: ray.hoad@drig.COM (Ray Hoad)
Subject: orbs\$294.21.amsat

SB KEPS @ AMSAT \$ORBS-294.N
2Line Orbital Elements 294.AMSAT

HR AMSAT ORBITAL ELEMENTS FOR AMATEUR SATELLITES IN NASA FORMAT
FROM WA5QGD FORT WORTH,TX October 21, 1994
BID: \$ORBS-294.N

DECODE 2-LINE ELSETS WITH THE FOLLOWING KEY:
1 AAAAAU 00 0 0 BBBB.BBBBBBBB .CCCCCCC 00000-0 00000-0 0 DDDZ
2 AAAAA EEE.EEEE FFF.FFFF GGGGGGG HHH.HHHH III.IIII JJ.JJJJJJJKKKKKZ
KEY: A-CATALOGNUM B-EPOCHTIME C-DECAY D-ELSETNUM E-INCLINATION F-RAAN
G-ECCENTRICITY H-ARGPERIGEE I-MNANOM J-MNMOTION K-ORBITNUM Z-CHECKSUM

TO ALL RADIO AMATEURS BT

AO-10
1 14129U 83058B 94289.48195497 -.00000348 00000-0 10000-3 0 3242

2	14129	26.8030	302.7931	6025932	219.6206	75.3706	2.05881540	85280
U0-11								
1	14781U	84021B	94293.06337217	.00000174	00000-0	37372-4	0	7471
2	14781	97.7840	301.9351	0010762	228.9828	131.0446	14.69256351568645	
RS-10/11								
1	18129U	87054A	94292.38005554	.00000024	00000-0	10172-4	0	9745
2	18129	82.9252	237.0364	0012882	44.0813	316.1366	13.72342608366947	
A0-13								
1	19216U	88051B	94289.83915306	-.00000675	00000-0	10000-4	0	9846
2	19216	57.7079	225.4122	7238776	352.6062	0.6575	2.09727113	48566
F0-20								
1	20480U	90013C	94293.27365552	-.00000026	00000-0	91245-5	0	7419
2	20480	99.0572	61.5721	0541232	56.2117	308.9325	12.83227627220171	
A0-21								
1	21087U	91006A	94292.36296368	.00000094	00000-0	82657-4	0	5309
2	21087	82.9357	50.8005	0036410	96.9673	263.5626	13.74545926186647	
RS-12/13								
1	21089U	91007A	94292.90359627	.00000048	00000-0	34480-4	0	7469
2	21089	82.9197	278.9539	0030567	119.7822	240.6385	13.74048095185779	
ARSENE								
1	22654U	93031B	94278.90721955	-.00000087	00000-0	00000	0	2913
2	22654	2.0802	94.2592	2911798	193.1780	157.9888	1.42203095	2778
U0-14								
1	20437U	90005B	94293.20440151	.00000016	00000-0	23113-4	0	468
2	20437	98.5855	16.2512	0010711	180.6647	179.4521	14.29858832247458	
A0-16								
1	20439U	90005D	94293.18528199	.00000021	00000-0	25194-4	0	8449
2	20439	98.5946	17.6023	0011017	181.3296	178.7858	14.29912892247464	
D0-17								
1	20440U	90005E	94293.26734657	.00000033	00000-0	29791-4	0	8459
2	20440	98.5958	18.0510	0011167	180.4971	179.6201	14.30052923247498	
W0-18								
1	20441U	90005F	94293.24494939	.00000021	00000-0	25148-4	0	8486
2	20441	98.5952	18.0195	0011596	180.8388	179.2773	14.30026432247490	
L0-19								
1	20442U	90005G	94292.65493458	.00000027	00000-0	27335-4	0	8437
2	20442	98.5961	17.7262	0011969	182.0129	178.1015	14.30124407247424	
U0-22								
1	21575U	91050B	94293.19690594	.00000058	00000-0	34254-4	0	5503
2	21575	98.4248	5.0993	0006860	280.7084	79.3332	14.36936911171034	
K0-23								
1	22077U	92052B	94289.37574728	-.00000037	00000-0	10000-3	0	4429
2	22077	66.0823	26.2410	0015338	259.0870	100.8421	12.86288192102377	
A0-27								
1	22825U	93061C	94289.20447981	.00000014	00000-0	23638-4	0	3417
2	22825	98.6444	3.7385	0007848	213.4469	146.6210	14.27637415	54951
I0-26								
1	22826U	93061D	94289.24670406	.00000018	00000-0	25236-4	0	3399

2	22826	98.6426	3.8334	0008393	215.0725	144.9903	14.27742390	54966
K0-25								
1	22830U	93061H	94292.73316631	-.00000186	00000-0	-57533-4	0	3471
2	22830	98.5400	3.1976	0009059	172.1632	187.9714	14.28064069	55472
22828								
1	22828U	93061F	94289.22924900	.00000034	00000-0	31473-4	0	3185
2	22828	98.6401	3.8389	0009607	199.1431	160.9387	14.28069592	23053
NOAA-9								
1	15427U	84123A	94292.88370020	.00000093	00000-0	73702-4	0	9974
2	15427	99.0368	344.7413	0014153	226.0662	133.9343	14.13651631507874	
NOAA-10								
1	16969U	86073A	94292.93882383	.00000061	00000-0	44168-4	0	8987
2	16969	98.5100	298.1417	0013220	330.2394	29.8030	14.24909944420262	
MET-2/17								
1	18820U	88005A	94292.73838504	.00000033	00000-0	16185-4	0	4383
2	18820	82.5447	169.5198	0015757	186.9368	173.1573	13.84723805339593	
MET-3/2								
1	19336U	88064A	94293.21289585	.00000051	00000-0	10000-3	0	3427
2	19336	82.5359	235.1966	0016829	316.3575	43.6213	13.16969429299711	
NOAA-11								
1	19531U	88089A	94292.90893343	.00000002	00000-0	25998-4	0	8142
2	19531	99.1837	284.9453	0012089	138.8878	221.3200	14.13020260312753	
MET-2/18								
1	19851U	89018A	94291.81358147	.00000054	00000-0	35104-4	0	3431
2	19851	82.5190	45.3496	0012849	238.8123	121.1778	13.84373737284796	
MET-3/3								
1	20305U	89086A	94293.33338987	.00000044	00000-0	10000-3	0	1772
2	20305	82.5518	183.4574	0007260	356.0882	4.0192	13.04426314239211	
MET-2/19								
1	20670U	90057A	94289.02064607	-.00000029	00000-0	-39668-4	0	8430
2	20670	82.5417	112.5063	0015863	163.0619	197.1069	13.84180243217334	
FY-1/2								
1	20788U	90081A	94292.99424304	.00000051	00000-0	62171-4	0	1421
2	20788	98.8205	309.0980	0015198	32.1908	328.0107	14.01324150211180	
MET-2/20								
1	20826U	90086A	94292.83869793	.00000051	00000-0	32316-4	0	8534
2	20826	82.5244	46.7963	0014865	59.8563	300.4067	13.83590629204990	
MET-3/4								
1	21232U	91030A	94292.88790442	.00000050	00000-0	10000-3	0	7516
2	21232	82.5360	81.4329	0011899	235.1113	124.8882	13.16465094167766	
NOAA-12								
1	21263U	91032A	94292.90974469	.00000110	00000-0	68448-4	0	2330
2	21263	98.6082	317.8860	0011906	234.1407	125.8665	14.22456927178236	
MET-3/5								
1	21655U	91056A	94293.19595151	.00000051	00000-0	10000-3	0	7496
2	21655	82.5551	28.4507	0012165	245.4973	114.4878	13.16834089152916	
MET-2/21								
1	22782U	93055A	94289.04172473	.00000026	00000-0	10791-4	0	3515

2 22782 82.5470 110.6784 0021042 247.9644 111.9280 13.83015942 56796
 POSAT
 1 22829U 93061G 94289.23698111 .00000011 00000-0 22241-4 0 3334
 2 22829 98.6409 3.8648 0009849 198.3675 161.7154 14.28044231 54978
 MIR
 1 16609U 86017A 94293.24006359 .000000649 00000-0 15350-4 0 8187
 2 16609 51.6470 280.5462 0002647 149.3494 210.7589 15.57467996495501
 HUBBLE
 1 20580U 90037B 94293.08815371 .000000605 00000-0 45070-4 0 5542
 2 20580 28.4689 153.6225 0005888 312.9020 47.1069 14.90698739 48043
 GRO
 1 21225U 91027B 94291.56764273 .00002937 00000-0 62055-4 0 1575
 2 21225 28.4599 95.3182 0003540 167.5778 192.4905 15.41421651 75992
 UARS
 1 21701U 91063B 94292.22798387 .000000207 00000-0 39100-4 0 6142
 2 21701 56.9864 21.9855 0004500 95.1744 264.9806 14.96517350169507
 /EX

 Date: Thu, 20 Oct 1994 15:46:38 GMT
 From: dale.piedfort@pcapbbbs.com (Dale Piedfort)
 Subject: Power company QRN!!

In Southern California a simple phone call to Southern Calif. Edison will usually result in the problem being taken care of in less than a week. That is unless you live in a City such as Anaheim which owns its own Utilities, and they wont recognize they have a responsibility to keep the lines, insulators and transformers clean and not inhibit your listening pleasure... I have had occasion to confront them several times about the interference, when I got no results I contacted the PUC and informed them of the problem and then informed the City of Anaheim that I would be making my payments directly to the PUC until the matter was resolved, and that would be followed with a letter of complaint to the local FCC Field Office stating that they are causing interference to a duly licensed Amatuer Station and had taken no steps to correct the problem. It then took less than a week to get the offending street lights fixed and a transformer replaced.. On the other side of the coin we operate an HF station at work, and power is supplied by S. C. E. and when power line noise interferes, a simple phone call to them and a team is usually out in less than two days and the problem corrected in less than a week. I found this true in Washington State also.. So if you are not getting satisfaction from your local power company, send a letter to the PUC in your area, followed up by a letter to your local FCC field office. I think you will be suprised, the same approach works with the Phone companies here, a quick call and outline the problem and they will suppress right up to where the wires enter your house, dont give up and pretty soon you should be as noise free as they can make

References<19940ct16.065841.22009@hpcvaac.cv.hp.com> <Cxy771.FqB@umassd.edu>,
<19940ct20.112116.16894@ke4zv.atl.ga.us>
Reply-To: jeffrey@math.hawaii.edu
Subject: Re: WTB: Radar gun...

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> The FAA windshear measuring radar is also *not* laser. It's
>UHF RF at 449.0 MHz (right in the amateur 70 cm band's repeater input
>segment, not pretty).
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Jeff NH6IL